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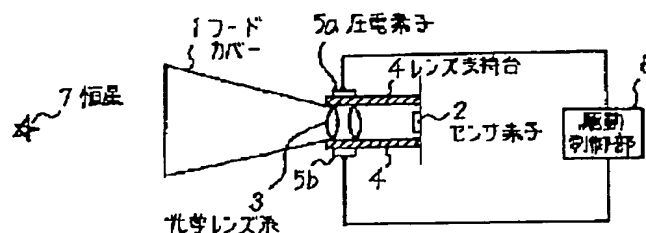
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APPLICANT : NEC CORP;

INVENTOR : MORIMURA TADAAKI;

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TITLE : FIXED STAR SENSOR



ABSTRACT : PURPOSE: To sweep off dust which slips into a fixed star sensor loaded on an artificial satellite for obtaining data necessary for attitude control in a gravity free state on the orbit of the satellite, and adheres to the surface of the lens of the sensor.

CONSTITUTION: Piezoelectric elements 5a, 5b are attached near the lens supporting base 4 of an optical lens system 3, and high frequency voltage is applied to the elements 5a, 5b from a drive control section 6 to vibrate the elements 5a, 5b for shaking off dust adhering to the surface of the lens of the optical lens system 3. The turning on and off of the action of the drive control section 6 are executed through a command issued from a ground station. The deterioration caused by the dust of an observation picture can be fundamentally avoided by shaking off the dust on the surface of the lens.

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